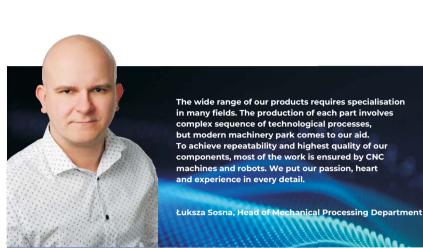
# Cooled incubators (ST) can provide stable temperature between +3...+70°C regardless of ambient conditions



Cooled incubator ST 2 C Smart PRO



All thermostatic equipment manufactured by POL-EKO-APARATURA can be provided with Calibration Certificate issued by accredited Measurement Laboratory. Detailed information on accreditation is available on website: www.pol-eko.eu.





## STANDARD FEATURES

- temperature range +3...+40°C (+70°C for Smart PRO)
- quality control protocol (at +37°C)
- English instruction manual
- temperature protection class 1.0 to DIN 12880 for B (basic) and C (comfort) versions, 2.0 for P (premium) version and 3.3 for Smart PRO
- open door alarm
- castors in standard for models ST 1200 and 1450
- LAN and USB ports
- internal LED light
- access port (Ø30 mm) on the left wall
- door lock
- wire shelves in B (basic) models, stainless steel wire shelves (INOX) in C (comfort) and P (premium) models
- solid door
- anchoring kit for ST 500, 700, 1200, 1450 and double/triple chambers

### EXTRA FOR **SMART PRO**

- Wi-Fi
- LAN cable
- LabDesk

## Application

- BOD determination
- microbiological research
- plant growing and microorganisms breeding at specified temperature
- storage of liquids and samples for physicochemical analysis

## AVAILABLE VERSIONS

- Smart
- Smart PRO
- FOT photoperiod (see page 44)
- FIT phytotron (see page 45)
- TR tropic (on request) for higher ambient temperatures
- double/triple chamber
- combined with ZLN 85 or CHL

## **SOFTWARE**

 LabDesk for data download to a PC via LAN or Wi-Fi (optional for Smart version)



		ST 1	ST 2	ST 3	ST 4	ST 5	ST 6	ST 500	ST 700	ST 1200	ST 1450	
				-				Ť.				
										88	1	
Parameter						for	ced					
air convection			150		050			500		1765	35 ( 0	
chamber capacity [I]		70	150	200	250	300	400	500	625	1365	1540	
working capacity [I]		55	122	163	203	243	324	469	611	1355	1525	
door type temperature range [°C]		solid / glass or double <sup>1</sup> (option) +3+40 / up to +70 (option) / +3+70 in Smart PRO										
temperature resolution	-				· 5 107 dp		ry 0,1					
controller				micropro	cessor PID. 4.			full colour to	uch screen			
	B (basic)	microprocessor PID, 4,3" (Smart) / 7" (Smart PRO) full colour touch screen aluminum										
interior	C (comfort)	stainless steel to DIN 1.4016										
	CS (comfort/S)	stainless steel to DIN 1.4016										
	P (premium)	acid-proof stainless steel to DIN 1.4301										
	PS (premium/S)	acid-proof stainless steel to DIN 1.4301										
housing	B (basic)	powder coated sheet										
	C (comfort)	powder coated sheet										
	CS (comfort/S)	polished stainless steel										
	P (premium)	powder coated sheet										
	PS (premium/S)	polished stainless steel										
overall dims [mm]	A width	570	620	620	620	620	620	660	750	1480	1460	
	B height	660	900	1100	1300	1500	1900	1990	1990	1990	1940	
	C depth	680	650	650	650	650	650	810	890	890	990	
internal dims <sup>3</sup> [mm]	D width	430	480	480	480	480	480	480	540	1270	1270	
	D' width	470	520	520	520	520	520	510	600	1330	1340	
	E height	430	660	860	1060	1260	1660	1510	1510	1510	1460	
	F depth	300	420	420	420	420	420	610	680	680	780	
	F' depth	360	480	480	480	480	480	-	-	-	-	
	G depth	-	320	320	320	320	320	-	-	-	-	
	H height	-	440	640	840	1040	1440	-	-	-	-	
	l height	-	-	-	-	-	-	1380	1380	1380	1380	
max shelf workload <sup>4</sup> [kg]	-	10	10	10	10	10	10	20	30	30	30	
	PW⁵version			on request				100	100	100	100	
max unit workload [kg]	-	20	30	40	50	60	60	100	150	300	300	
	W <sup>6</sup> version					on re	quest		•			
nominal power [W]		250	250	250	250	350	350	650	650	650	950	
weight <sup>7</sup> [kg]		37	54	61	69	75	90	105	121	185	200	
temperature fluctuation* at +37°C [+/- °C]		0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	
temperature variation* at +37°C [+/- °C]		0,5	0,5	0,5	0,6	0,6	0,6	1,0	1,0	1,0	1,0	
temperature protection	n		cla	ass 1.0 to DIN	12880 / class 3	.3 (option) / c	lass 2.0 in P v	ersion / class	3.3 in Smart F	PRO		
power supply**						230V 5	0-60Hz					
shelves fitted/max		2/2	3/4	3/4	4/6	4/7	4/10	3/11	3/11	2 x 3/11 <sup>8</sup>	2 x 3/11 <sup>8</sup>	
refrigerant				R1234ze	/GWP=1				R290/	GWP=3		
warranty		24 months										
manufacturer		POL-EKO-APARATURA										

all the above technical data refer to standard units (without optional accessories)

\*\* - fluctuation measured in centre of chamber; in space, variation (K) calculated for chamber as: K= +/- (T avg max - T avg min) / 2 \*\* - other power supplies on request

1- additional internal glass door

2- depth does not include 50 mm of power cable

3- dims of units with double door are smaller

4- on uniformly loaded surface

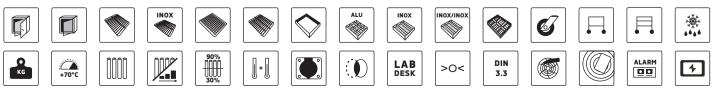
5- reinforced shelf

6- reinforced version

7- for equipment with solid door, in version B (basic)

8- two columns with 3 shelves each

#### Options and accessories (icon description see pages 76-82)



		ST 1/1	ST 1/1/1	ST 2/2	ST 2/3				
				-	-				
Parameter									
air convection			forced						
chamber capacity [l]	70 / 70	70 / 70 / 70	150 / 150	150/200					
working capacity [l]	55/55	55 / 55 / 55	122 / 122	122/163					
door type	solid / glass or double' (option)								
temperature range [°C]	+3+40 / up to +70 (option) / +3+70 in Smart PRO								
temperature resolution [°C]	every 0,1								
controller		microprocessor PID, 4,3" (Smart) / 7" (Smart PRO) full colour touch screen							
	B (basic)	aluminum							
	C (comfort)	stainless steel to DIN 1.4016							
interior	CS (comfort/S)	stainless steel to DIN 1.4016							
	P (premium)	acid-proof stainless steel to DIN 1.4301							
	PS (premium/S)	acid-proof stainless steel to DIN 1.4301							
	B (basic)	powder coated sheet							
	C (comfort)	powder coated sheet							
housing	CS (comfort/S)	polished stainless steel							
	P (premium)	powder coated sheet							
	PS (premium/S)		polished sta	inless steel					
	A width	570	570	620	620				
overall dims² [mm]	B height	1290	1920	1720	1930				
	C depth	680	680	650	650				
	D width	430	430	480	480				
	D' width	470	470	520	520				
	E height	430	430	660	660/860				
internal dims <sup>3</sup> [mm]	F depth	300	300	420	420				
	F' depth	360	360	480	480				
	G depth	-	-	320	320				
	H height	-	-	440	440/640				
max shelf	-	10	10	10	10				
workload <sup>4</sup> [kg]	PW <sup>s</sup> version	on request							
max unit	-	20/20	20/20/20	30/30	30/40				
workload [kg]	W <sup>6</sup> version		on req	uest					
nominal power [W]		500							
weight <sup>7</sup> [kg]	65	98	109	114					
temperature fluctuation* at +37°C [+/- °C]	0,3	0,3	0,3	0,3					
temperature variation* at +37°C [+/- °C]	0,5	0,5	0,5	0,5					
temperature protection	class 1.0 to DIN 12880 / class 3.3 (option) / class 2.0 in P version / class 3.3 in Smart PRO								
power supply**	230V 50-60Hz								
shelves fitted/max	see page 36								
refrigerant	R1234ze / GWP=1								
warranty	24 months								
manufacturer	POL-EKO-APARATURA								

all the above technical data refer to standard units (without optional accessories)
\* - fluctuation measured in centre of chamber; in space, variation (K) calculated for chamber as: K= +/- (T avg max - T avg min) / 2
\*\* - other power supplies on request

1- additional internal glass door

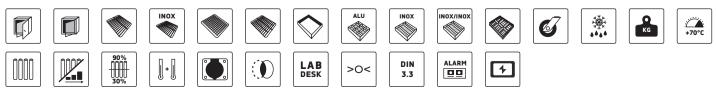
2- depth does not include 50 mm of power cable 3- dims of units with double door are smaller

4- on uniformly loaded surface

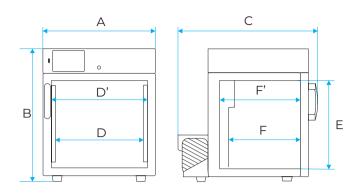
5- reinforced shelf

6- reinforced version 7- for units with solid door, in version B (basic)

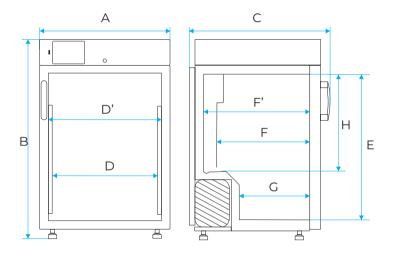
### Options and accessories (icon description see pages 76-82)



#### Dimensions ST 1



# Dimensions ST 2/3/4/5/6



## Dimensions ST 500/700/1200/1450

